ARIZONA DEPARTMENT OF EDUCATION

Tom Horne, Superintendent of Public Instruction

LOCAL DIRECTORS MEETING

November 5, 2008

Prescott Resort

Welcome and Introductions	**Barbara Border**
2009-2010 Codes and Titles for NOI Submission	**Jan Brite**
CTE Innovations Program Grants	**Helen Bootsma**
Fall Assessments	**Barbara Border and Helen Bootsma**
FFA Presentation	**Tyler Grandil**
Par Announcement	**Karlene Darby**
Certification Update	**Barbara Border and Jim Brown**
Meetings for the Remainder of the Year	**Barbara Border**

BREAK

Breakout Sessions

1. **Assessments--**
   Processes for Fall Assessments and Questions
2. **NOI Questions**

ACTE Report	**Pam Ferguson**
ACOVA Report	**Polly Abraham**

Adjourn

Who Takes CTE End-of-Program Assessments?

First Semester

- Concentrators who have completed the state-designated sequence of CTE courses and will not be enrolled in the same CTE program second semester.
- Concentrators who are currently enrolled in the last year of the state-designated sequence of CTE courses and want to practice.

Second Semester

- Concentrators who have completed the state-designated sequence of courses.

Secondary Concentrator – A secondary student who has transcripted two (2) or more Carnegie Units/credits in a state-designated sequence in an approved Career and Technical Education program. The Carnegie Units/credits must be in a single Career Preparation program as outlined in the CTE Handbook.

Perkins Secondary Performance Measure & Citation	Measurement Definition	7/1/08 - 6/30/09
2S1 Technical Skill Attainment 113(b)(2)(A)(ii)	**Numerator:** Number of CTE concentrators who completed the state-designated sequence of instruction then took and passed the technical skills assessment and left secondary education in the reporting year. **Denominator:** Number of CTE concentrators who completed the state-designated sequence of instruction and then took the technical skills assessment and left secondary education in the reporting year.	**Negotiated Level** **65%**

The Office of Vocational and Adult Education (OVAE) has approved Arizona's proposal that **60** percent of the **concentrators eligible to take the assessment** in identified program areas will take the assessment.

Arizona Education Law: ARS § 15-391(3)(d)(e) requires that JTED programs are designed to lead the student toward certification accepted by industry as a demonstration of competency in that industry. It also requires students to obtain a passing score on an examination that demonstrates a level of skill or competency for that program of study.

The CTE end-of-program assessment is designed to meet **both** Federal Perkins and the Arizona State requirements.

Online Assessments Scheduled for November 17- December 19, 2008

Pilot Programs

CIP	Program
13.1200	Education and Training: Education Professions
15.1300	Drafting and Design Technology Option A - Architectural Drafting
15.1300	Drafting and Design Technology Option C - Electronics Drafting
15.1300	Drafting and Design Technology Option D - Mechanical Drafting
47.0600	Automotive Technologies Option D - Aircraft Mechanics
51.0900	Diagnostic and Intervention Technologies Option B- Emergency Medical Paramedics
52.1900	Design and Merchandising Option A - Fashion
52.1900	Design and Merchandising Option B - Interior

End-of-Program Assessments

CIP	Program
01.0100	Ag Business Management-Agriscience Option B - Plant Systems
01.0100	Ag Business Management-Agriscience Option C - Animal Systems
01.0100	Ag Business Management-Agriscience Option F - Agribusiness Systems
12.0500	Culinary Arts
46.0200	Carpentry Technologies Option A - Carpentry
46.0200	Carpentry Technologies Option B - Cabinetmaking
46.0400	Construction Technologies
47.0600	Automotive Technologies Option A - Automotive Technology
47.0600	Automotive Technologies Option B - Automotive Collision Repair
51.0800	Allied Health Services Option B - Laboratory Assisting
51.0800	Allied Health Services Option D - Sports Medicine & Rehabilitation Services
51.0800	Allied Health Services Option E - Medical Assisting Services
51.1600	Nursing Services
52.0200	Business Management and Administrative Services
52.0300	Accounting and Related Services
52.0800	Financial Services

INNOVATIVE CTE PROGRAMS GRANT SUMMARY
2008 – 2009

Total award through competitive application under Perkins IV
Year II: $327,694.19
Year I: City $76,174.00 &
Rural TBD in process
Total $403,868.19

District Project Descriptions for Year II Biotechnology Program Awards:

East Valley Institute of Technology (EVIT)
Kathy Hayden, CTE Director
Amount of Year II Award: $71,147.00

Understanding Arizona's support for the biotechnology industry and bioscience research, EVIT personnel have developed a rigorous Biotechnology program that is delivered through a highly personalized project-based learning process. Student learning involves subjects such as DNA science, genetics and genomics, immunology, electrophoresis, antibodies, structure of bacteria, culture protocols, enzymes, bioethics and fundamental laboratory techniques to be delivered in EVIT's new health building. Students will receive 4 credits at Mesa Community College in BIO 107: Introduction to Biotechnology. Industry partners recruited to assist with program delivery include Barrow Neurological Institute, St. Joseph's Hospital and Medical Center, Mayo Clinic, Arizona State University and TGen. The program instructor holds a Master of Science in Bioengineering and has 8 years of experience working in the fields of Biotechnology and Postsecondary Education. She has done research in Molecular, Cellular and Tissue engineering and extensive studies in Law as related to Biotechnology. This highly skilled instructor is committed to hosting summer seminars in EVIT's new state-of-the-art facility for teachers and districts wishing to improve or implement a Biotechnology Program.

Tolleson Union High School District
Marilyn Keller, CTE Director
Amount of Year II Award: $92,594.30

In a nation with increasing health care needs and located in a fast-growing southwest metro Phoenix area, Tolleson Union High School District schools are situated near the new Banner Estrella Medical Center and South Mountain Community College with its Biotechnology Program. These two facilities provide new training and employment opportunities for the high level of interest in healthcare professions that have been identified among 20% of Tolleson's 8,779 high school students. By adding a Biomedical Technology Program, the school district will better serve students whose interests are in healthcare research and laboratory work. All program students will continue to take college prep math and college prep science classes as well as their Biomedical Technology classes. The curriculum for Biomedical Technology has been cross-walked to the National Science Standards. Partners recruited to assist with program delivery include the Biodesign Institute at ASU, South Mountain Community College, TGen and Banner Estrella Medical Center. This new district program will be housed at their new Sierra Linda High School which has laboratories designed for biotechnology coursework. The program instructor holds a Bachelor of Science Degree in Microbiology from NAU with industry experience as a microbiologist.

Tucson Unified School District
Kathy Prather, CTE Director
Amount of Year II Award: $95,171.40

An award winning team of teachers is leading the Biotechnology Programs at three of Tucson Unified School Districts high schools. Among awards teachers received in 2008 are "Teacher of the Year" at The Southern Arizona Science and Engineering Fair, "Outstanding Teacher 2008" at the Arizona Junior Science and Humanities Symposium, "Outstanding Biology Teacher of Arizona" by the National Association of Biology Teachers along with various other awards. Business and industry partners and strong connections with academic institutions have provided quality field trip, job shadowing and internship opportunities through the Cord Blood Registry, High Throughput Genomics, BIO5, Colleges of Pharmacy and Science, Critical Path Institute, U of A, SRI International and the US Food and Drug Administration. Working in conjunction with the Southwest Environmental Health Sciences Center and BIO5, the TUSD Biotechnology Advisory Council developed a summer curriculum with the U of A's "Keys to Internship Program" to give students a week of intensive instruction in laboratory techniques and protocol. Subsequently, six TUSD students were placed in university laboratories where they trained and worked under university laboratory principal investigators. Additionally, other students participated in paid internships to afford a total of 25 students with internship opportunities. A strong advisory council and active CTSO have been organized.

District Project Description for Year II Engineering Sciences Program Award:

Sierra Vista Unified School District
Andrea Strack, CTE Director
Amount of Year II Award: $65,781.49

Project Lead the Way program of partnership with Cochise College in Sierra Vista enrolls freshmen in the Introduction to Engineering course and sophomores in the Principles of Engineering course allowing them to enter Cochise College, which is within walking distance of the high school, as juniors and continue as seniors. There are currently 75 freshmen enrolled in the Introduction to Engineering course. Upon graduation from Buena High School, students will take subsequent courses at Cochise College. This method of delivery will merge academic theory with skill application, critical thinking and problem solving as well as increase awareness of the role that engineering plays in the workforce. As the largest high school in Cochise County, Buena High School will offer opportunities for collaboration in the Engineering Sciences Program with smaller schools in southeastern Arizona. Program students receive tuition scholarships through a Smaller Learning Communities grant awarded Buena High School. One of the goals for the program is that AIMS reading and math scores increase the meet/exceed standards by 90% over the next five years.

District Project Description for Year I Engineering Sciences Award (Metro):

Tempe Union High School District
Nori Cannell, CTE Director
Amount of Year I Award: $76,174.00

Dessert Vista High School in Tempe Union High School District has collaborated with ASU to provide students with the latest engineering technologies that gives them an understanding of the past, present and future of automotive engineering through mechanical engineering classes delivered within their Automotive Technology Program. Students will gain knowledge and skills needed to work in an automotive based job and grant them the opportunity to continue on to postsecondary education in the engineering fields. Program students will be concurrently enrolled in Engineering 101 and Engineering 102 for a total of 7 ASU College of Engineering credits that could be used toward most engineering degrees at all three State universities.
The new Mechanical Engineering classes will be taught by the Automotive Technology teacher at Desert Vista High School and two days a week by the Mechanical Engineering professors from the ASU Polytechnic Campus. The program teacher has 16 years experience with the program and has studied and worked with hydrogen fuel cell development domestically and internationally. Students will generate hydrogen and produce, store and utilize the hydrogen in fuel cells as part of an initiative that makes fuel-cell vehicles practical and cost-effective. High school math and science teachers are providing assistance with curriculum development that incorporates the State math and science standards for chemistry, physics and calculus. Team building, presentation, technical reading and technical writing skills will be developed through written project analyses submitted to technical journals for publication and oral presentations to business and industry people in the automotive and mechanical engineering fields, etc. The Automotive Technology facility contains a computer lab, engineering lab and machine shop. Additionally it includes a large outside facility that contains the generation stations, vehicles and an assembly area. Grant monies will be used to purchase hydrogen generation stations, an inverter and a computer server to enrich the students' experience and provide them with an actual hands-on workplace experience with the hydrogen fuel cell process.

District Project Description for Year I Rural:

In process